# FRM220-10/100iS-2

## Dual Channels 10/100Base-TX to 100Base-FX In-Band Managed Converter

The FRM220-10/100iS-2 is a dual (2 in 1) 10/100Base Ethernet to 100Base-FX fiber slide-in card converter based on the popular FRM220-10/100i. With advanced features like bandwidth control, this media converter is targeted for customer premises equipment in metro LAN, campus, enterprise and FTTx applications. By offering in-band management, this converter can be completely controlled and monitored from a centrally located managed rack controlling all converter settings including band-width control, duplex, and speed configuration. By offering two completely isolated converters on one card, this card can effectively double the conversion capacity of a rack.
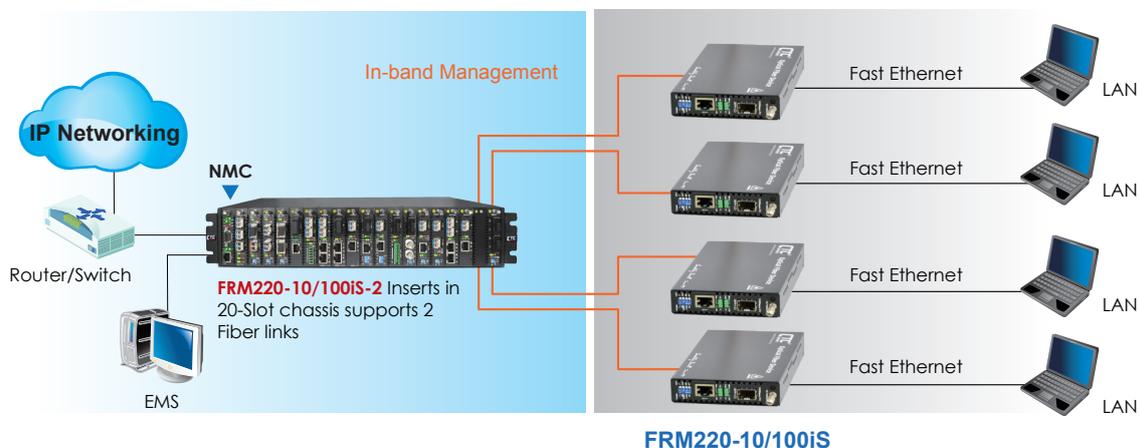
## Features

- Dual independent converters 10/100Base-TX to 100Base-FX
- Auto-Negotiation or forced mode
- Auto MDI/MDIX
- Forward 2046 bytes (max.) packets in switch mode
- Supports IEEE 802.1Q Tag VLAN pass thru
- Supports Q in Q double tagged frame transparent
- Forward 9K jumbo packets in converter mode
- Supports local / remote In-band management (Monitor and Configure) by the SNMP manager

- Bandwidth control (Nx32Kbps or Nx512Kbps) & flow control (Pause)
- Supports remote CPE power fail detect (dying gasp)
- Supports Far End Fault Indication (FEFI) and Link Fault Pass-Through (LFPT)
- Supports Loop Back Test and RMON counter
- D/D function for supported SFP fiber transceiver
- Auto Laser Shutdown (ALS) and Fiber Hardware Reset (FHR)
- Online local / remote f/w upgrade

## Specifications

| Optical Interface | | |
|---|---|---|
| | Connector | SFP LC |
| | Data rate | 125 Mbps |
| | Duplex mode | Full duplex |
| | Fiber | MM 50/125μm, 62.5/125μm. SM 9/125μm |
| | Distance | MM 2km, SM 15/30/50/80/120km, WDM 20/40/60/80km |
| | Wavelength | MM 1310nm, SM 1310,1550nm WDM 1310Tx/1550Rx (type A) 1550Tx/1310Rx (type B) |
| Electrical Interface | Connector | RJ-45 |
| | Data rate | 10Mbps, 100Mbps |
| | Duplex mode | Half / Full duplex |
| | Cable | 10Base-T Cat.3, 4, 5, UTP 100Base-TX Cat.5, 5e or higher |

| | |
|---|---|
| Standards | IEEE 802.3, IEEE 802.3u, IEEE 802.3x, TS-1000 |
| Indications | LED (Power, FEF, FX-Link, TX-SPD, TX-Duplex, TX-Link) |
| Power Input | 12VDC |
| Power Consumption | < 4W |
| Dimensions | 155 x 88 x 23mm (D x W x H) |
| Weight | 130g |
| Temperature | 0 ~ 50℃ (Operating), -10 ~ 70℃ (Storage) |
| Humidity | 10 ~ 90% non-condensing |
| Certification | CE, FCC, RoHS compliant |
| MTBF | 65,000 hrs |

## Application



In-band Management

IP Networking

NMC

Router/Switch

**FRM220-10/100iS-2** Inserts in 20-Slot chassis supports 2 Fiber links

EMS

Fast Ethernet — LAN
Fast Ethernet — LAN
Fast Ethernet — LAN
Fast Ethernet — LAN

**FRM220-10/100iS**

## Ordering Information

| Model Name | Description |
|---|---|
| FRM220-10/100iS-2 | Dual converter 10/100Base-TX to 100Base-FX SFP with In-band management, (optional SFP) |

**Note:** The Card is suitable for use in CH01 standalone chassis.